



PAT MCCRORY
Governor

DONALD R. VAN DER VAART
Secretary

SHEILA C. HOLMAN
Director

XXXXXX XX, XXXX

Mr. Wiley Roark
President
Maymead Materials, Inc. - 421 Recycling Yard
PO Box 911
Mountain City, TN 37683

Subject: Air Permit No. 10003R05
Maymead Materials, Inc. - 421 Recycling Yard
Boone, Watauga County, North Carolina
Permit Class: Synthetic Minor
Facility ID# 9500134

Dear Mr. Roark:

In accordance with your completed application received November 10, 2015, we are forwarding herewith Permit No. 10003R05 to Maymead Materials, Inc. - 421 Recycling Yard, Boone, Watauga County, North Carolina for the construction and operation of air emissions sources or air cleaning devices and appurtenances. Additionally, any emissions activities determined from your air permit application as meeting the exemption requirements contained in 15A NCAC 2Q .0102 have been listed for information purposes as an "ATTACHMENT" to the enclosed air permit. Please note the records retention requirements are contained in General Condition 2 of the General Conditions and Limitations.

If any parts, requirements, or limitations contained in this permit are unacceptable to you, you have the right to request a formal adjudicatory hearing within 30 days following receipt of this permit, identifying the specific issues to be contested. Such a request will stay the effectiveness of the entire permit. This hearing request must be in the form of a written petition, conforming to G.S. 150B-23 of the North Carolina General Statutes, and filed with the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, NC 27699-6714. The form for requesting a formal adjudicatory hearing may be obtained upon request from the Office of Administrative Hearings. Unless a request for a hearing is made pursuant to G.S. 150B-23, this air permit shall be final and binding.

You may request modification of your air permit through informal means pursuant to G.S. 150B-22. This request must be submitted in writing to the Director and must identify the specific provisions or issues for which the modification is sought. Please note that the permit will become final and binding regardless of a request for informal modification unless a request for a hearing is also made under G.S. 150B-23.

Unless exempted by a condition of this permit or the regulations, construction of new air pollution sources or air cleaning devices, or modifications to the sources or air cleaning devices described in this permit must be covered under a permit issued by the Division of Air Quality prior to construction. Failure to do so is a violation of G.S. 143-215.108 and may subject the Permittee to civil or criminal penalties as described in G.S. 143-215.114A and 143-215.114B.

This permit shall be effective from XXXXXX XX, XXXX until February 28, 2022, is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein.

The following changes have been made to the permit stipulations:

- The emission sources associated with the hot mix asphalt (HMA) plant (ID Nos. ES-15, ES-16, ES-17, ES-19, IES-1, and IES-2) have been added to the permit and Insignificant/Exempt Activities attachment as applicable.
- The facility is now subject to rules that are applicable to the emission sources associated with the HMA plant, including Title 15A NCAC Subchapters 2D .0503, 2D .0506, 2D .0516, 2D .0524 (40 CFR Part 60, Subpart I), 2D .0605, 2D .0611, 2D .1100, 2Q .0304, 2Q .0315, 2Q .0317 (Avoidance), and 2Q .0711. See the respective conditions in the permit for more details.

The Permittee is responsible for carefully reading the entire permit and evaluating the requirements of each permit stipulation. The Permittee shall comply with all terms, conditions, requirements, limitations and restrictions set forth in this permit. Noncompliance with any permit condition is grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application.

Should you have any questions concerning this matter, please contact Taylor Hartsfield at 336-776-9639.

Sincerely,

Lisa Edwards, P.E., Regional Supervisor
Division of Air Quality, NC DEQ

MTH
Enclosures

c: Winston-Salem Regional Office

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

DEPARTMENT OF ENVIRONMENTAL QUALITY

DIVISION OF AIR QUALITY

AIR PERMIT NO. 10003R05

Issue Date: XXXXXX XX, XXXX

Effective Date: XXXXXX XX, XXXX

Expiration Date: February 28, 2022

Replaces Permit: 10003R04

To construct and operate air emission source(s) and/or air cleaning device(s), and for the discharge of the associated air contaminants into the atmosphere in accordance with the provisions of Article 21B of Chapter 143, General Statutes of North Carolina (NCGS) as amended, and other applicable Laws, Rules and Regulations,

Maymead Materials, Inc. - 421 Recycling Yard
5251 US Highway 421 South
Boone, Watauga County, North Carolina
Permit Class: Synthetic Minor
Facility ID# 9500134

(the Permittee) is hereby authorized to construct and operate the air emissions sources and/or air cleaning devices and appurtenances described below:

Emission Source ID	Emission Source Description	Control System ID	Control System Description
One drum mix, hot mix asphalt plant (325 tons per hour maximum rated capacity) capable of processing recycled asphalt pavement, including:			
ES-15 (NSPS)	No. 2 fuel oil/ recycled No. 2 fuel oil/ No. 4 fuel oil/ recycled No. 4 fuel oil-fired drum dryer/mixer (120 million Btu per hour maximum heat input)	CD-1	Bagfilter (7,163 square feet of filter area)
ES-16	Hot mix asphalt storage silo (70 tons capacity)	N/A	N/A
ES-17	Truck loadout operation	N/A	N/A
ES-19	No. 2 fuel oil-fired liquid asphalt cement heater (1 million Btu per hour maximum heat input)	N/A	N/A
One non-metallic mineral processing plant utilizing wet suppression, including:			
Rock crushing operation, consisting of:			
ES-14	Track-mounted mobile jaw crusher (150 tons per hour rated capacity) with one integral conveyor	N/A	N/A
ES-03	Screen (5' x 12')	N/A	N/A
ES-04	Conveyor (36" wide)	N/A	N/A
ES-05	Conveyor (36" wide)	N/A	N/A

Emission Source ID	Emission Source Description	Control System ID	Control System Description
ES-06	Conveyor (36" wide)	N/A	N/A
ES-07	Conveyor (36" wide)	N/A	N/A
ES-09	Conveyor (36" wide)	N/A	N/A
ES-10	Conveyor (36" wide)	N/A	N/A
ES-01c	Track-mounted cone crushing unit consisting of a 3' diameter cone crusher (100 tons per hour rated capacity), and two integral conveyors	N/A	N/A
Recycling operation, consisting of:			
ES-01b	Portable impactor/crusher (100 tons per hour rated capacity)	N/A	N/A
ES-11	Conveyor (48" wide)	N/A	N/A
ES-12	Track-mounted screening unit consisting of a reject grid, an 18' x 5' screening deck (100 tons per hour rated capacity), and four integral conveyors	N/A	N/A
ES-13	Conveyor (36" wide)	N/A	N/A

in accordance with the completed application 9500134.15B received November 10, 2015 including any plans, specifications, previous applications, and other supporting data, all of which are filed with the Department of Environmental Quality, Division of Air Quality (DAQ) and are incorporated as part of this permit.

This permit is subject to the following specified conditions and limitations including any **TESTING, REPORTING, OR MONITORING REQUIREMENTS:**

A. SPECIFIC CONDITIONS AND LIMITATIONS

- Any air emission sources or control devices authorized to construct and operate above must be operated and maintained in accordance with the provisions contained herein. The Permittee shall comply with applicable Environmental Management Commission Regulations, including Title 15A North Carolina Administrative Code (NCAC), Subchapter 2D .0202, 2D .0503, 2D .0506, 2D .0510, 2D .0516, 2D .0521, 2D .0524 (40 CFR Part 60, Subpart I), 2D .0535, 2D .0540, 2D .0605, 2D .0611, 2D .1100, 2D .1806, 2Q .0304, 2Q .0309, 2Q .0315, 2Q .0317 (PSD and 2Q .0700 Avoidance), and 2Q .0711.
- PERMIT RENEWAL AND EMISSION INVENTORY REQUIREMENT** - The Permittee, at least 90 days prior to the expiration date of this permit, shall request permit renewal by letter in accordance with 15A NCAC 2Q .0304(d) and (f). Pursuant to 15A NCAC 2Q .0203(i), no permit application fee is required for renewal of an existing air permit (without a modification request). The renewal request (with AA application form) should be submitted to the Regional Supervisor, DAQ. Also, at least 90 days prior to the expiration date of this permit, the Permittee shall submit the air pollution emission inventory report (with Certification Sheet) in accordance with 15A NCAC 2D .0202, pursuant to N.C.

General Statute 143 215.65. The report shall be submitted to the Regional Supervisor, DAQ and shall document air pollutants emitted for the 2020 calendar year.

3. **PARTICULATE CONTROL REQUIREMENT** - As required by 15A NCAC 2D .0503 "Particulates from Fuel Burning Indirect Heat Exchangers," particulate matter emissions from the fuel burning indirect heat exchangers shall not exceed the allowable emission rates listed below:

Source	Emission Limit (lbs/million Btu)
No. 2 fuel oil-fired liquid asphalt cement heater (1 million Btu per hour maximum heat input) (ES-19)	0.60

4. **PARTICULATE CONTROL REQUIREMENT** - As required by 15A NCAC 2D .0506 "Particulates from Hot Mix Asphalt Plants,"

- a. Particulate matter emissions resulting from the operation of a hot mix asphalt plant shall not exceed allowable emission rates. The allowable emission rates are, as defined in 15A NCAC 2D .0506, a function of the process weight rate and shall be determined by the following equation (calculated to three significant figures), where P is the process throughput rate in tons per hour (tons/hr) and E is the allowable emission rate in pounds per hour (lbs/hr).

$$E = 4.9445 * (P)^{0.4376} \quad \text{for } P < 300 \text{ tons/hr, or}$$

$$E = 60 \text{ lbs/hr} \quad \text{for } P \geq 300 \text{ tons/hr}$$

- b. Visible emissions from stacks or vents at a hot mix asphalt plant shall be less than 20 percent opacity when averaged over a six-minute period.
- c. Fugitive dust emissions shall be controlled as required by 15A NCAC 2D .0540 "Particulates From Fugitive Dust Emission Sources."
- d. Fugitive emissions for sources at a hot mix asphalt plant not covered elsewhere under this Rule shall not exceed 20 percent opacity averaged over six minutes.
5. **PARTICULATE CONTROL REQUIREMENT** - As required by 15A NCAC 2D .0510 "Particulates from Sand, Gravel, or Crushed Stone Operations," the following requirements apply:
- a. The Permittee of a sand, gravel, recycled asphalt pavement (RAP), or crushed stone operation shall not cause, allow, or permit any material to be produced, handled, transported, or stockpiled without taking measures to reduce to a minimum any particulate matter from becoming airborne to prevent exceeding the ambient air quality standards beyond the property line for particulate matter, both PM₁₀ and total suspended particulates.

- b. Fugitive dust emissions from sand, gravel, RAP, or crushed stone operations shall be controlled by 15A NCAC 2D .0540 "Particulates from Fugitive Dust Emission Sources."
- c. The Permittee of any sand, gravel, RAP, or crushed stone operation shall control process-generated emissions:
 - i. From crushers with wet suppression (excluding RAP crushers); and
 - ii. From conveyors, screens, and transfer points

such that the applicable opacity standards in 15A NCAC 2D .0521 "Control of Visible Emissions," or 15A NCAC 2D .0524 "New Source Performance standards" are not exceeded.

- 6. SULFUR DIOXIDE CONTROL REQUIREMENT - As required by 15A NCAC 2D .0516 "Sulfur Dioxide Emissions from Combustion Sources," sulfur dioxide emissions from the combustion sources shall not exceed 2.3 pounds per million Btu heat input.
- 7. VISIBLE EMISSIONS CONTROL REQUIREMENT - As required by 15A NCAC 2D .0521 "Control of Visible Emissions," visible emissions from the emission sources, manufactured after July 1, 1971, shall not be more than 20 percent opacity when averaged over a six-minute period, except that six-minute periods averaging not more than 87 percent opacity may occur not more than once in any hour nor more than four times in any 24-hour period. However, sources which must comply with 15A NCAC 2D .0524 "New Source Performance Standards" or .1110 "National Emission Standards for Hazardous Air Pollutants" must comply with applicable visible emissions requirements contained therein.
- 8. 15A NCAC 2D .0524 "NEW SOURCE PERFORMANCE STANDARDS" - For No. 2 fuel oil/ recycled No. 2 fuel oil/No. 4 fuel oil/ recycled No. 4 fuel oil-fired drum dryer/mixer (120 million Btu per hour maximum heat input) (ID No. ES-15), the Permittee shall comply with all applicable provisions, including the notification, testing, reporting, recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 2D .0524 "New Source Performance Standards" (NSPS) as promulgated in 40 CFR 60, Subpart I, including Subpart A "General Provisions."
 - a. NSPS Reporting Requirements - In addition to any other notification requirements to the Environmental Protection Agency (EPA), the Permittee is required to NOTIFY the Regional Supervisor, DAQ, in WRITING, of the following:
 - i. The date construction (40 CFR 60.7) or reconstruction (40 CFR 60.15) of an affected source is commenced, postmarked no later than 30 days after such date. This requirement shall not apply in the case of mass-produced sources which are purchased in completed form;
 - ii. The actual date of initial start-up of an affected source, postmarked within 15 days after such date.

- b. NSPS Emissions Limitations - As required by 15A NCAC 2D .0524, the Permittee shall not discharge or cause the discharge into the atmosphere from any affected source any gases which:
 - i. Contain particulate matter in excess of 90 mg/dscm (0.04 gr/dscf); or
 - ii. Exhibit 20 percent opacity, or greater.
 - c. NSPS Performance Testing - As required by 15A NCAC 2D .0524, the following performance tests shall be conducted:
 - i. The Permittee shall conduct the testing required at Permit Condition A.11.
9. NOTIFICATION REQUIREMENT - As required by 15A NCAC 2D .0535, the Permittee of a source of excess emissions that last for more than four hours and that results from a malfunction, a breakdown of process or control equipment or any other abnormal conditions, shall:
- a. Notify the Director or his designee of any such occurrence by 9:00 a.m. Eastern time of the Division's next business day of becoming aware of the occurrence and describe:
 - i. the name and location of the facility,
 - ii. the nature and cause of the malfunction or breakdown,
 - iii. the time when the malfunction or breakdown is first observed,
 - iv. the expected duration, and
 - v. an estimated rate of emissions.
 - b. Notify the Director or his designee immediately when the corrective measures have been accomplished.

This reporting requirement does not allow the operation of the facility in excess of Environmental Management Commission Regulations.

10. FUGITIVE DUST CONTROL REQUIREMENT - As required by 15A NCAC 2D .0540 "Particulates from Fugitive Dust Emission Sources," the Permittee shall not cause or allow fugitive dust emissions to cause or contribute to substantive complaints or excess visible emissions beyond the property boundary. If substantive complaints are received or excessive fugitive dust emissions from the facility are observed beyond the property boundaries for six minutes in any one hour (using Reference Method 22 in 40 CFR, Appendix A), the owner or operator may be required to submit a fugitive dust plan as described in 2D .0540(f).

"Fugitive dust emissions" means particulate matter that does not pass through a process stack or vent and that is generated within plant property boundaries from activities such as: unloading and loading areas, process areas stockpiles, stock pile working, plant parking lots, and plant roads (including access roads and haul roads).

11. **TESTING REQUIREMENT** - Under the provisions of North Carolina General Statute 143-215.108 and in accordance with 15A NCAC 2D .0605, the Permittee shall demonstrate compliance with the emission limit(s) by testing the emission source(s) for the specified pollutant(s) as follows:

Affected Source(s)	Pollutant	Target Parameter	Test Method
No. 2 fuel oil/ recycled No. 2 fuel oil/No. 4 fuel oil/ recycled No. 4 fuel oil-fired drum dryer/mixer (120 million Btu per hour maximum heat input) (ES-15)	Filterable Particulate Matter	As per 15A NCAC 2D .0506 and 2D .0524	Method 5
	Condensable Particulate Matter		Method 202
	Visible Emissions	20% opacity	Method 9

- a. The Permittee shall arrange for air emission testing protocols to be provided to the DAQ prior to testing. Testing protocols are not required to be pre-approved by the DAQ prior to testing. The DAQ shall review testing protocols for pre-approval prior to testing if requested by the Permittee at least 45 days before conducting the test.
- b. To afford the Regional Supervisor, DAQ, the opportunity to have an observer present, the Permittee shall PROVIDE the Regional Office, in WRITING, at least 15 days notice of any required performance test(s).
- c. Within 60 days after achieving the maximum production rate at which the source will be operated, but not later than 180 days after the initial start-up of the affected source, the Permittee shall conduct the required performance test(s) and submit two copies of a written report of the test(s) to the Regional Supervisor, DAQ.
- d. This permit may be revoked, with proper notice to the Permittee, or enforcement procedures initiated, if the results of the test(s) indicate that the facility does not meet applicable limitations.
- e. The source shall be responsible for ensuring, within the limits of practicality, that the equipment or process being tested is operated at or near its maximum normal production rate, or at a lesser rate if specified by the Director or his delegate.
- f. All associated testing costs are the responsibility of the Permittee.

12. **FABRIC FILTER REQUIREMENTS** including cartridge filters, baghouses, and other dry filter particulate collection devices - As required by 15A NCAC 2D .0611, particulate matter emissions shall be controlled as described in the permitted equipment list.

- a. **Inspection and Maintenance Requirements** - To comply with the provisions of this permit and ensure that emissions do not exceed the regulatory limits, the Permittee shall perform, at a minimum, an annual (for each 12 month period following the initial inspection) internal inspection of each particulate collection device system. In addition, the Permittee shall perform periodic inspections and maintenance as recommended by the equipment manufacturer.
- b. **Recordkeeping Requirements** - The results of all inspections and any variance from manufacturer's recommendations or from those given in this permit (when applicable) shall be investigated with corrections made and dates of actions recorded in a logbook. Records of all maintenance activities shall be recorded in the logbook. The logbook (in written or electronic format) shall be kept on-site and made available to DAQ personnel upon request.

13. **TOXIC AIR POLLUTANT EMISSIONS LIMITATION AND REPORTING**

REQUIREMENT - Pursuant to 15A NCAC 2D .1100 "Control of Toxic Air Pollutants," and in accordance with the approved application for an air toxic compliance demonstration, the following permit limits shall not be exceeded:

Affected Source(s)	Toxic Air Pollutant	Emission Limit
No. 2 fuel oil/ recycled No. 2 fuel oil/No. 4 fuel oil/ recycled No. 4 fuel oil-fired drum dryer/mixer (120 million Btu per hour maximum heat input) (ES-15)	Arsenic & Compounds (total mass of elemental AS, arsine and all inorganic compounds) (ASC (7778394))	0.168 lbs/yr
	Benzene (71-43-2)	117 lbs/yr
	Formaldehyde (50-00-0)	1.01 lbs/hr
	Nickel metal (Component of NIC) (7440-02-0)	0.492 lbs/24-hrs
Hot mix asphalt storage silo (70 tons capacity) (ES-16)	Benzene (71-43-2)	1.17 lbs/yr
	Formaldehyde (50-00-0)	0.0273 lbs/hr
Truck loadout operation (ES-17)	Benzene (71-43-2)	0.649 lbs/hr
	Formaldehyde (50-00-0)	0.00119 lbs/hr
No. 2 fuel oil-fired liquid asphalt cement heater (1 million Btu per hour maximum heat input) (ES-19)	Arsenic & Compounds (total mass of elemental AS, arsine and all inorganic compounds) (ASC (7778394))	0.035 lbs/yr
	Benzene (71-43-2)	0.172 lbs/yr
	Formaldehyde (50-00-0)	0.00034 lbs/hr
	Nickel metal (Component of NIC) (7440-02-0)	0.000072 lbs/24-hrs

- a. Restrictions - To ensure compliance with the above limits, the following restrictions shall apply:
- i. Hot mix asphalt production shall not exceed 300,000 tons per calendar year.
 - ii. The height of the bagfilter (ID No. CD-1) stack shall not be less than 30.18 feet and shall be located at UTM coordinates 17N 447293 4009812.
 - iii. The height of the No. 2 fuel oil-fired liquid asphalt cement heater (ID No. ES-19) stack shall not be less than 6.23 feet and shall be located at UTM coordinates 17N 447281 4009809.
 - iv. The height of the hot mix asphalt storage silo (ID No. ES-16) release point shall not be less than 22.51 feet and shall be located at UTM coordinates 17N 447284 4009802.
 - v. The height of the truck load-out (ID No. ES-17) release point shall not be less than 4.99 feet and shall be located at UTM coordinates 17N 447284 4009802.
 - vi. If any actual (as-built) values (coordinates) differ from those submitted by the Permittee that was used in the modeling analysis submitted as a part of permit application No. 9500134.15B, the Permittee shall notify the DAQ and provide the new values. The DAQ will re-evaluate the validity of the original modeling analysis and notify the Permittee in writing whether additional modeling is required. The Permittee shall not operate the affected sources until written approval from the DAQ is received.
- b. Reporting Requirements - For compliance purposes, within 30 days after each calendar year, regardless of the actual emissions, the following shall be reported to the Regional Supervisor, DAQ:
- i. The total amount [tons] of hot mix asphalt produced for the previous calendar year.
- c. Recordkeeping Requirements - The following recordkeeping requirements apply:
- i. The Permittee shall record in a log book (in written or electronic format) the monthly quantity [tons] of hot mix asphalt produced.
 - ii. The log book shall be made available to DAQ personnel upon request.
 - iii. All records shall be kept on site for a minimum of three years.

14. CONTROL AND PROHIBITION OF ODOROUS EMISSIONS - As required by 15A NCAC 2D .1806 "Control and Prohibition of Odorous Emissions" the Permittee shall not operate the facility without implementing management practices or installing and operating odor control equipment sufficient to prevent odorous emissions from the facility from causing or contributing to objectionable odors beyond the facility's boundary.

15. **SOURCE EXEMPTED FROM AIR PERMITTING REQUIREMENTS** - The following portable internal combustion engine, listed on the "Insignificant/Exempt Activities" attachment to the permit, qualifies for permit exemption under 15A NCAC 2Q. 0102(c)(1)(L)(ii) and is exempt from federal stationary source standards (NSPS and NESHAP) due to being defined as a non-road engine.

Source ID	Source Description
IES-15	Portable diesel-fired internal combustion engine (425 hp maximum rated capacity) associated with impactor/crusher (ES-01b)

- a. In accordance with 40 CFR 1068.30, a portable engine is a non-road engine, except if the engine remains or will remain at a location for more than 12 consecutive months or a shorter period of time for an engine located at a seasonal source.
 - b. The Permittee shall maintain records that document each time the location of a portable engine is changed, and shall document the reason that the engine is re-located.
 - c. If the portable engine remains at the same location for more than 12 consecutive months, the engine shall be considered a stationary engine and shall no longer be exempt from 40 CFR 63 Subpart ZZZZ, and the Permittee shall comply with all applicable provisions of the Subpart, including Subpart A "General Provisions." The Permittee shall notify DAQ within 10 days should the portable engine become a stationary engine.
16. **ZONING SPECIFIC CONDITION** - In accordance with 15A NCAC 2Q .0304, prior to construction or operation of the facility under this permit, the Permittee shall comply with all lawfully adopted local ordinances that apply to the facility at the time of construction or operation of the facility. The local zoning authority shall have the responsibility of enforcing all lawfully adopted local zoning or subdivision ordinances.
17. **PERMIT REOPENING** - In accordance with N.C.G.S. 143-215.108(c), upon the Director becoming aware of any credible air emissions data not previously considered by the DAQ during the application review process, the Director may require the Permittee to submit additional information including, but not limited to, emissions estimates and air dispersion modeling. Based on this information, the Director may modify and reissue the permit with additional emission controls and/or additional operational restrictions necessary to demonstrate compliance with any applicable regulation.
18. **LIMITATION TO AVOID 15A NCAC 2Q .0501** - Pursuant to 15A NCAC 2Q .0315 "Synthetic Minor Facilities," to avoid the applicability of 15A NCAC 2Q .0501 "Purpose of Section and Requirement for a Permit," as requested by the Permittee, facility-wide emissions shall be less than the following:

Pollutant	Emission Limit
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	(Tons per consecutive 12-month period)
SO ₂	100
CO	100

- a. Operations Restrictions - To ensure emissions do not exceed the limitations above, the following restrictions shall apply:

- i. The amount of asphalt produced shall be less than 300,000 tons per consecutive 12-month period.
- ii. The sulfur content of the No. 4/ recycled No. 4 fuel oil shall be limited to 1.5% sulfur by weight.

- b. Recordkeeping Requirements

- i. The Permittee shall record monthly and total annually the following:

- A. The amount [tons] of asphalt produced.

- ii. Fuel supplier certification shall be kept on-site and made available to DAQ personnel upon request.

- c. Reporting Requirements - Within 30 days after each calendar year, regardless of the actual emissions, the Permittee shall submit the following:

- i. Emissions and/or operational data listed below. The data should include monthly and 12 month totals for the previous 12 month period.

- A. The amount [tons] of asphalt produced.

- B. The facility-wide SO₂ and CO emissions [tons].

- ii. A summary of the fuel certification records for the previous 12 months.

19. LIMITATION TO AVOID 15A NCAC 2D .0530 "PREVENTION OF SIGNIFICANT DETERIORATION" - In accordance with 15A NCAC 2Q .0317, to comply with this permit and avoid the applicability of 15A NCAC 2D .0530 "Prevention of Significant Deterioration," as requested by the Permittee, emissions shall be limited as follows:

Affected Source(s)	Pollutant	Emission Limit (Tons Per Consecutive 12-month Period)
Facility Wide	SO ₂	250

20. VENDOR SUPPLIED RECYCLED No(s). 2 and 4 FUEL OIL REQUIREMENTS - In accordance with Rule 2Q .0317, the Permittee is avoiding the applicability of Rule 2Q .0700

by using recycled fuels which are equivalent to their virgin counterparts. The Permittee is allowed to use the recycled fuel oil(s) as follows:

- a. Specifications - The recycled fuel oil(s) shall be equivalent to unadulterated fossil fuel by meeting the following criteria:

Constituent/Property	Allowable Level
Arsenic	1.0 ppm maximum
Cadmium	2.0 ppm maximum
Chromium	5.0 ppm maximum
Lead	100 ppm maximum
Total Halogens	1000 ppm maximum
Flash Point	
No. 2	100°F minimum
No. 4	130°F minimum
Sulfur	
No. 2	0.5% maximum (by weight)
No. 4	2.0% maximum (by weight)
Ash	1.0% maximum

- b. The Permittee is responsible for ensuring that the recycled fuel oil(s), as received at the site, meet(s) the approved criteria for unadulterated fuel. The Permittee is held responsible for any discrepancies discovered by DAQ as a result of any sampling and analysis of the fuel oil(s).
- c. Recordkeeping Requirements - The Permittee shall maintain at the facility for a minimum of three years, and shall make available to representatives of the DAQ upon request, accurate records of the following:
- i. The actual amount of recycled fuel oil(s) delivered to, and combusted at the facility on an annual basis.
 - ii. Each load of recycled fuel oil received shall include the following:
 - A. A delivery manifest document clearly showing the shipment content and amount, its place and date of loading, and place and date of destination.
 - B. A batch specific analytical report that contains an analysis for all constituents / properties listed above. Analytical results of the samples representative of the recycled oil shipment from the vendor shall be no more than one year old when received.
 - C. Batch signature information consisting of the following: a batch number, tank identification with batch volume of recycled oil, date and time the batch completed treatment, and volume(s) delivered.

D. A certification indicating that the recycled fuel oil does not contain detectable PCBs (<2ppm).

d. Reporting Requirements - Within 30 days after each calendar year, regardless of the amount received or combusted, the Permittee shall submit in writing to the Regional Supervisor, DAQ, the following:

i. A summary of the results of the analytical testing for the previous 12 months.

ii. The total gallons of recycled fuel oil(s) from each approved vendor combusted at the facility for the previous 12 months.

e. The DAQ reserves the right to require additional testing and/or monitoring of the recycled fuel oil(s) on an annual basis or without notice.

21. TOXIC AIR POLLUTANT EMISSIONS LIMITATION REQUIREMENT - Pursuant to 15A NCAC 2Q .0711 "Emission Rates Requiring a Permit," for each of the below listed toxic air pollutants (TAPs), the Permittee has made a demonstration that facility-wide actual emissions, where one or more emission release points are obstructed or non-vertically oriented, do not exceed the Toxic Permit Emission Rates (TPERs) listed in 15A NCAC 2Q .0711(a). The facility shall be operated and maintained in such a manner that emissions of any listed TAPs from the facility, including fugitive emissions, will not exceed TPERs listed in 15A NCAC 2Q .0711(a).

- a. A permit to emit any of the below listed TAPs shall be required for this facility if actual emissions from all sources will become greater than the corresponding TPERs.
- b. PRIOR to exceeding any of these listed TPERs, the Permittee shall be responsible for obtaining a permit to emit TAPs and for demonstrating compliance with the requirements of 15A NCAC 2D .1100 "Control of Toxic Air Pollutants".
- c. In accordance with the approved application, the Permittee shall maintain records of operational information demonstrating that the TAP emissions do not exceed the TPERs as listed below:

Pollutant	Carcinogens (lb/yr)	Chronic Toxicants (lb/day)	Acute Systemic Toxicants (lb/hr)	Acute Irritants (lb/hr)
Acetaldehyde (75-07-0)				6.8
Acrolein (107-02-8)				0.02
Benzo(a)pyrene (Component of 83329/POMTV & 56553/7PAH) (50-32-8)	2.2			
Beryllium Metal (unreacted) (Component of BEC) (7440-41-7)	0.28			

Pollutant	Carcinogens (lb/yr)	Chronic Toxicants (lb/day)	Acute Systemic Toxicants (lb/hr)	Acute Irritants (lb/hr)
CFC-11 (Trichlorofluoromethane) (75-69-4)			140	
Cadmium Metal, elemental, unreacted (Component of CDC) (7440-43-9)	0.37			
Carbon disulfide (75-15-0)		3.9		
Chromium (VI) Soluble Chromate Compounds (Component of CRC) (SolCR6)		0.013		
Fluorides (sum of all fluoride compounds as mass of F ion) (16984-48-8)		0.34	0.064	
Hexachlorodibenzo-p-dioxin 1,2,3,6,7,8 (57653-85-7)	0.0051			
Hydrogen chloride (hydrochloric acid) (7647-01-0)				0.18
Hydrogen sulfide (7783-06-4)		1.7		
MEK (methyl ethyl ketone, 2-butanone) (78-93-3)		78		22.4
Manganese & compounds (MNC)		0.63		
Mercury, vapor (Component of HGC) (7439-97-6)		0.013		
Methyl chloroform (71-55-6)		250		64
Methylene chloride (75-09-2)	1600		0.39	
Perchloroethylene (tetrachloroethylene) (127-18-4)	13000			
Phenol (108-95-2)			0.24	
Styrene (100-42-5)			2.7	
TCE (trichloroethylene) (79-01-6)	4000			
Tetrachlorodibenzo-p-dioxin, 2,3,7,8- (Component of CLDC & 83329/POMTV) (1746-01-6)	0.0002			
Toluene (108-88-3)		98		14.4
Xylene (mixed isomers) (1330-20-7)		57		16.4

B. GENERAL CONDITIONS AND LIMITATIONS

1. In accordance with G.S. 143-215.108(c)(1), TWO COPIES OF ALL DOCUMENTS, REPORTS, TEST DATA, MONITORING DATA, NOTIFICATIONS, REQUESTS FOR

RENEWAL, AND ANY OTHER INFORMATION REQUIRED BY THIS PERMIT shall be submitted to the:

Regional Supervisor
North Carolina Division of Air Quality
Winston-Salem Regional Office
450 West Hanes Mill Road
Suite 300
Winston-Salem, NC 27105
336-776-9800

For identification purposes, each submittal should include the facility name as listed on the permit, the facility identification number, and the permit number.

2. RECORDS RETENTION REQUIREMENT - In accordance with 15A NCAC 2D .0605, any records required by the conditions of this permit shall be kept on site and made available to DAQ personnel for inspection upon request. These records shall be maintained in a form suitable and readily available for expeditious inspection and review. These records must be kept on site for a minimum of 2 years, unless another time period is otherwise specified.
3. ANNUAL FEE PAYMENT - Pursuant to 15A NCAC 2Q .0203(a), the Permittee shall pay the annual permit fee within 30 days of being billed by the DAQ. Failure to pay the fee in a timely manner will cause the DAQ to initiate action to revoke the permit.
4. EQUIPMENT RELOCATION - In accordance with 15A NCAC 2Q .0301, a new air permit shall be obtained by the Permittee prior to establishing, building, erecting, using, or operating the emission sources or air cleaning equipment at a site or location not specified in this permit.
5. REPORTING REQUIREMENT - In accordance with 15A NCAC 2Q .0309, any of the following that would result in previously unpermitted, new, or increased emissions must be reported to the Regional Supervisor, DAQ:
 - a. changes in the information submitted in the application regarding facility emissions;
 - b. changes that modify equipment or processes of existing permitted facilities; or
 - c. changes in the quantity or quality of materials processed.

If appropriate, modifications to the permit may then be made by the DAQ to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause a violation of the emission limitations specified herein.

6. In accordance with 15A NCAC 2Q .0309, this permit is subject to revocation or modification by the DAQ upon a determination that information contained in the application or presented in the support thereof is incorrect, conditions under which this permit was granted have changed, or violations of conditions contained in this permit have occurred. In

accordance with G.S. 143-215.108(c)(1), the facility shall be properly operated and maintained at all times in a manner that will effect an overall reduction in air pollution. Unless otherwise specified by this permit, no emission source may be operated without the concurrent operation of its associated air cleaning device(s) and appurtenances.

7. In accordance with G.S. 143-215.108(c)(1), this permit is nontransferable by the Permittee. Future owners and operators must obtain a new air permit from the DAQ.
8. In accordance with G.S. 143-215.108(c)(1), this issuance of this permit in no way absolves the Permittee of liability for any potential civil penalties which may be assessed for violations of State law which have occurred prior to the effective date of this permit.
9. In accordance with G.S. 143-215.108(c)(1), this permit does not relieve the Permittee of the responsibility of complying with all applicable requirements of any Federal, State, or Local water quality or land quality control authority.
10. In accordance with 15A NCAC 2D .0605, reports on the operation and maintenance of the facility shall be submitted by the Permittee to the Regional Supervisor, DAQ at such intervals and in such form and detail as may be required by the DAQ. Information required in such reports may include, but is not limited to, process weight rates, firing rates, hours of operation, and preventive maintenance schedules.
11. A violation of any term or condition of this permit shall subject the Permittee to enforcement pursuant to G.S. 143-215.114A, 143-215.114B, and 143-215.114C, including assessment of civil and/or criminal penalties.
12. Pursuant to North Carolina General Statute 143-215.3(a)(2), no person shall refuse entry or access to any authorized representative of the DAQ who requests entry or access for purposes of inspection, and who presents appropriate credentials, nor shall any person obstruct, hamper, or interfere with any such representative while in the process of carrying out his official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.
13. In accordance with G.S. 143-215.108(c)(1), this permit does not relieve the Permittee of the responsibility of complying with any applicable Federal, State, or Local requirements governing the handling, disposal, or incineration of hazardous, solid, or medical wastes, including the Resource Conservation and Recovery Act (RCRA) administered by the Division of Waste Management.
14. PERMIT RETENTION REQUIREMENT - In accordance with 15A NCAC 2Q .0110, the Permittee shall retain a current copy of the air permit at the site. The Permittee must make available to personnel of the DAQ, upon request, the current copy of the air permit for the site.
15. CLEAN AIR ACT SECTION 112(r) REQUIREMENTS - Pursuant to 15A NCAC 2D .2100 "Risk Management Program," if the Permittee is required to develop and register a risk management plan pursuant to Section 112(r) of the Federal Clean Air Act, then the Permittee is required to register this plan with the USEPA in accordance with 40 CFR Part 68.

16. PREVENTION OF ACCIDENTAL RELEASES - GENERAL DUTY - Pursuant to Title I Part A Section 112(r)(1) of the Clean Air Act "Hazardous Air Pollutants - Prevention of Accidental Releases - Purpose and General Duty," although a risk management plan may not be required, if the Permittee produces, processes, handles, or stores any amount of a listed hazardous substance, the Permittee has a general duty to take such steps as are necessary to prevent the accidental release of such substance and to minimize the consequences of any release. **This condition is federally-enforceable only.**
17. GENERAL EMISSIONS TESTING AND REPORTING REQUIREMENTS - If emissions testing is required by this permit, or the DAQ, or if the Permittee submits emissions testing to the DAQ in support of a permit application or to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 2D .2600 and follow all DAQ procedures including protocol approval, regional notification, report submittal, and test results approval.

Permit issued this the XX of XXXXX, XXXX.

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

Lisa Edwards, P.E.

Regional Supervisor

By Authority of the Environmental Management Commission

Air Permit No. 10003R05

Insignificant / Exempt Activities

Source ID	Source Description	Exemption Regulation	Source of TAPs?	Source of Title V Pollutants?
IES-15	Portable diesel-fired internal combustion engine (425 hp maximum rated capacity) associated with impactor/crusher (ES-01b)	2Q .0102 (c)(1)(L)(ii)	Yes	No
IES-1	Above ground storage tank containing fuel oil (5,000 gallons capacity)	2Q .0102 (c)(1)(D)(i)	Yes	Yes
IES-2	Above ground storage tank containing liquid asphalt cement (30,000 gallons capacity)	2Q .0102 (c)(1)(L)(xii)	Yes	Yes

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1. Because an activity is exempted from being required to have a permit or permit modification does not mean that the activity is exempted from an applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement.
 2. When applicable, emissions from stationary source activities identified above shall be included in determining compliance with the permit requirements for toxic air pollutants under 15A NCAC 2D .1100 "Control of Toxic Air Pollutants" or 2Q .0711 "Emission Rates Requiring a Permit."
 3. Sample permit conditions showing the regulatory requirements for exempt sources subject to NESHAP, NSPS, and NCAC rules may be found here: <http://www.ncair.org/permits/insig/>